Multimedia
User Guide

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First Edition: August 2009

Document Part Number: 539917-001

Product notice

This user guide describes features that are common to most models. Some features may not be available on your computer.

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1 Multimedia features

Your computer includes multimedia features that allow you to listen to music, watch movies, and view pictures. Your computer may include the following multimedia components:

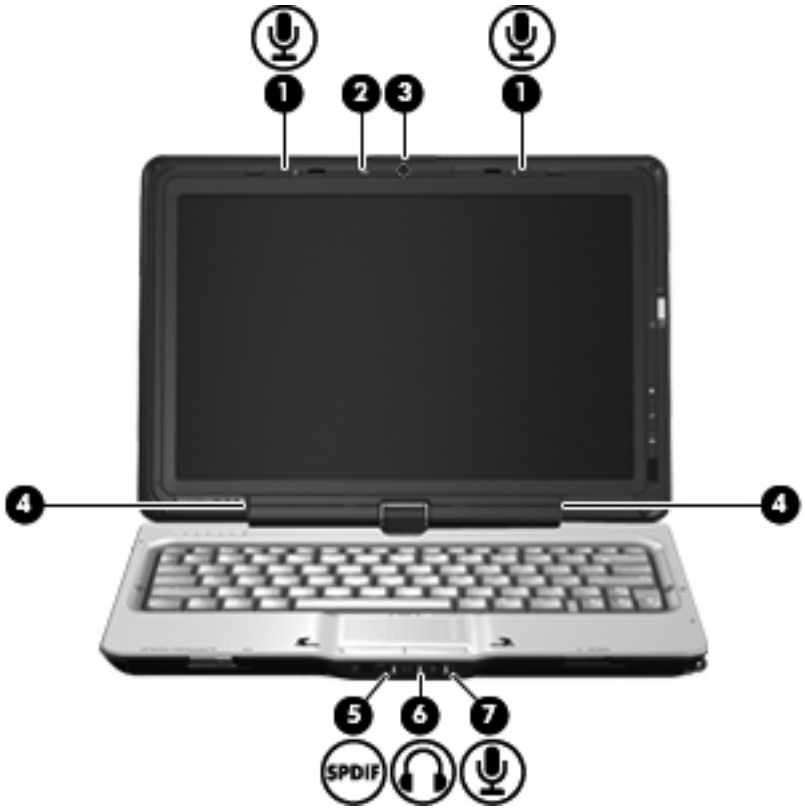
- Optical drive for playing audio and video discs
- Integrated speakers for listening to music
- Integrated microphone for recording your own audio
- Integrated webcam that allows you to record audio and video and capture still photographs
- Preinstalled multimedia software that allows you to play and manage your music, movies, and pictures
- Multimedia buttons and hotkeys that provide fast access to multimedia tasks

NOTE: Your computer may not include all of the components listed.

The following sections explain how to identify and use the multimedia components included with your computer.

Identifying the multimedia components

The following illustration and table describe the multimedia features of the computer.



Component		Description
(1)	Internal microphones (2)	Record sound.
(2)	Webcam light	Turns on when video software accesses the webcam.
(3)	Webcam	Records audio and video and captures still photographs.
(4)	Speakers (2)	Produce sound.
(5)	Audio-out (headphone) S/PDIF jack	Provides enhanced audio performance, including surround sound and other high-end audio output. **NOTE:** When connecting a microphone to this jack, use a microphone with a 3.5-mm plug.
(6)	Audio-out (headphone) jacks (2)	Produce sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio. **WARNING!** To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the *Regulatory, Safety and Environmental Notices*. **NOTE:** When a device is connected to the headphone jack, the computer speakers are disabled.
(7)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.

Using the multimedia buttons

Using the Media Launch button **(1)**, you can watch movies, listen to music, and view pictures. Using the rotate button **(2)**, you can change the orientation of the image on the screen.

Pressing the Media Launch button launches the TouchSmart program.

Repeatedly pressing the rotate button rotates the screen image counter-clockwise through 4 orientations: landscape primary, portrait primary, landscape secondary, and portrait secondary.

Adjusting the volume

You can adjust the volume using the following controls:

- Computer volume buttons:
  - To decrease volume, press the volume down button **(1)**.
  - To mute or restore volume, press the mute button **(2)**.
  - To increase volume, press the volume up button **(3)**.

- Windows® volume control:

  a. Click the **Speakers** icon in the notification area, at the far right of the taskbar.

  b. Increase or decrease the volume by moving the slider up or down. Click the **Mute Speakers** icon to mute the volume.

  – or –

  a. Right-click the **Speakers** icon in the notification area, and then click **Open Volume Mixer**.

  b. In the **Speakers** column, increase or decrease the volume by moving the slider up or down. You can also mute the volume by clicking the **Mute Speakers** icon.

  If the **Speakers** icon is not displayed in the notification area, follow these steps to add it:

  a. Right-click the **Show hidden icons** icon (the arrow at the left side of the notification area).

  b. Click **Customize notification icons**.

  c. Under **Behaviors**, select **Show icon and notifications** for the Volume icon.

  d. Click **OK**.

- Program volume control:

  Volume can also be adjusted within some programs.

2 Multimedia software

Your computer includes preinstalled multimedia software that allows you to play music, watch movies, and view and edit pictures. The following sections provide details about HP TouchSmart and other preinstalled multimedia software.

Using HP TouchSmart software

HP TouchSmart turns your computer into a mobile entertainment center. With TouchSmart, you can enjoy music and DVD movies. You can also view Internet TV and manage and edit your photo collections.

TouchSmart includes the following features:

- Internet TV—With an Internet connection, play classic oldies, choose from a range of TV shows and channels, and watch the HP-TV channel streamed in full-screen.
- Playlist upload support:
  - Upload your photos to Internet photo albums, such as Snapfish.
  - Upload your home videos directly to YouTube.
  - Upload videos you created with the webcam to the Internet.
- Pandora Internet radio (North America only)—Listen to music selected just for you, streamed from the Internet.

To start TouchSmart:

▲ Press the Media Launch button on the right side of the computer display.

– or –

Use your finger or the digitizer pen to double-tap the **TouchSmart** icon on the computer desktop.

Using other preinstalled multimedia software

To locate other preinstalled multimedia software:

- Select **Start > All Programs**, and then open the multimedia program you want to use. For example, if you want to use Windows Media Player to play an audio CD, click **Windows Media Player**.

NOTE: Some programs may be located in subfolders.

Installing multimedia software from a disc

To install any multimedia software from a CD or DVD, follow these steps:

1. Insert the disc into the optical drive.
2. When the installation wizard opens, follow the on-screen instructions.
3. Restart the computer if you are prompted to do so.

NOTE: For details about using software included with the computer, refer to the software manufacturer's instructions, which may be provided on disc, in the software Help, or on the manufacturer's Web site.

3 Audio

Your computer enables you to use a variety of audio features:

- Play music using your computer speakers and/or connected external speakers
- Record sound using the internal microphone or connect an external microphone
- Download music from the Internet
- Create multimedia presentations using audio and images
- Transmit sound and images with instant messaging programs
- Stream radio programs (select models only) or receive FM radio signals
- Create or “burn” audio CDs

Connecting external audio devices

⚠ **WARNING!** To reduce the risk of personal injury, adjust the volume before putting on headphones, ear buds, or a headset. For additional safety information, refer to the *Regulatory, Safety and Environmental Notices*.

To connect external devices such as external speakers, headphones, or a microphone, refer to the information provided with the device. For best results, remember the following tips:

- Be sure that the device cable is securely connected to the correct jack on your computer. (Cable connectors are normally color-coded to match the corresponding jacks on the computer.)
- Be sure to install any drivers required by the external device.

NOTE: A driver is a required program that acts like a translator between the device and the programs that use the device.

Checking your audio functions

To check the system sound on your computer, follow these steps:

1. Select **Start > Control Panel**.
2. Click **Hardware and Sound**.
3. Click **Sound**.
4. When the Sound window opens, click the **Sounds** tab. Under **Program Events**, select any sound event, such as a beep or alarm, and click the **Test** button.

   You should hear sound through the speakers or through connected headphones.

To check the record functions of the computer, follow these steps:

1. Select **Start > All Programs > Accessories > Sound Recorder**.
2. Click **Start Recording** and speak into the microphone. Save the file to your desktop.
3. Open Windows Media Player or TouchSmart and play back the sound.

NOTE: For best results when recording, speak directly into the microphone and record sound in a setting free of background noise.

To confirm or change the audio settings on your computer, select **Start > Control Panel > Hardware and Sound > Sound**.

4 Video

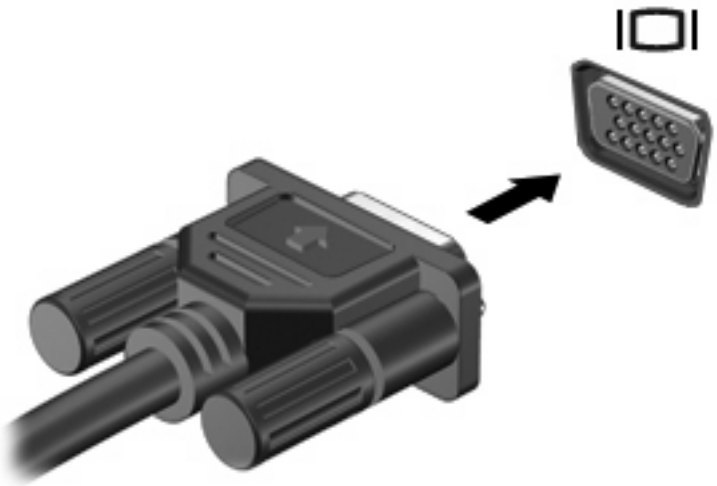
Your computer enables you to use a variety of video features:

- Watch movies
- Play games over the Internet
- Edit pictures and video and create presentations
- Connect external video devices
- Watch TV, including high-definition TV (select models only)

Connecting an external monitor or projector

The external monitor port connects an external display device such as an external monitor or a projector to the computer.

▲ To connect a display device, connect the device cable to the external monitor port.



NOTE: If a properly connected external display device does not display an image, press fn+f4 to transfer the image to the device. Repeatedly pressing fn+f4 alternates the screen image between the computer display and the device.

5 Optical drive

Your computer includes an optical drive that allows you to read data discs, play music, and watch movies. If your computer includes a Blu-ray Disc drive, also know as a BD drive, you can also watch high-definition video from disc. Identify the kind of device installed in your computer to see its capabilities.

Identifying the installed optical drive

▲ Select **Start > Computer**.

You will see a list of all the devices installed on your computer, including your optical drive. You may have one of the following types of drives:

- DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive
- DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe
- Blu-ray ROM DVD±R/RW SuperMulti Double-Layer Drive
- Blu-ray ROM with LightScribe DVD±R/RW SuperMulti Double-Layer Drive

NOTE: Some of the drives listed above may not be supported by your computer.

Using optical discs

An optical drive, such as a DVD-ROM drive, supports optical discs (CDs, DVDs, and BDs). These discs store information, such as music, photos, and movies. DVDs and BDs have a higher storage capacity than CDs.

Your optical drive can read standard CD and DVD discs. If your optical drive is a BD drive, it can also read BDs.

NOTE: Some of the optical drives listed may not be supported by your computer. The listed drives are not necessarily all of the supported optical drives.

Some optical drives can also write to optical discs as described in the following table.

Optical drive type	Write to CD-RW	Write to DVD±RW/R	Write to DVD+RW DL	Write label to LightScribe CD or DVD±RW/R
DVD±RW and CD-RW SuperMulti DL Combo Drive	Yes	Yes	Yes	No
DVD±RW and CD-RW SuperMulti DL Combo Drive with LightScribe	Yes	Yes	Yes	Yes

CAUTION: To prevent possible audio and video degradation, loss of information, or loss of audio or video playback functionality, do not initiate Sleep or Hibernation while reading or writing to a disc.

Selecting the right disc

An optical drive supports optical discs (CDs, DVDs, and BDs). CDs, used to store digital data, are also used for commercial audio recordings and are convenient for your personal storage needs. DVDs and BDs are used primarily for movies, software, and data backup purposes. DVDs and BDs are the same size as CDs but have a much higher storage capacity.

NOTE: The optical drive on your computer may not support all the types of optical discs discussed in this section.

CD-R discs

Use CD-R (write-once) discs to create permanent archives and to share files with virtually anyone. Typical uses include the following:

- Distributing large presentations
- Sharing scanned and digital photos, video clips, and written data
- Making your own music CDs
- Keeping permanent archives of computer files and scanned home records
- Offloading files from your hard drive to free up disk space

After data is recorded, it cannot be erased or written over.

CD-RW discs

Use a CD-RW disc (a rewritable version of a CD) to store large projects that must be updated frequently. Typical uses include the following:

- Developing and maintaining large documents and project files
- Transporting work files
- Making weekly backups of hard drive files
- Updating photos, video, audio, and data continuously

DVD±R discs

Use blank DVD±R discs to permanently store large amounts of information. After data is recorded, it cannot be erased or written over.

DVD±RW discs

Use DVD±RW discs if you want to be able to erase or write over data that you saved earlier. This type of disc is ideal for testing audio or video recordings before you burn them to a CD or DVD that cannot be changed.

LightScribe DVD+R discs

Use LightScribe DVD+R discs for sharing and storing data, home videos, and photos. These discs are read-compatible with most DVD-ROM drives and DVD video players. With a LightScribe-enabled drive and LightScribe software, you can write data to the disc and then add a designer label to the outside of the disc.

Blu-ray Disc (BD)

BD is a high-density optical disc format for the storage of digital information, including high-definition video. A single-layer BD can store 25 GB, over five times the size of the 4.7-GB single-layer DVD. A dual-layer BD can store 50 GB, almost 6 times the size of the 8.5-GB dual-layer DVD.

Typical uses include the following:

- Storage of large amounts of data
- High-definition video playback

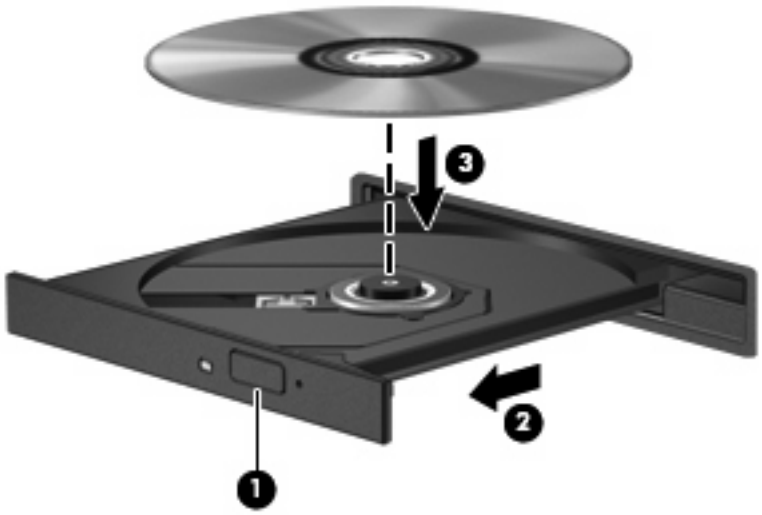
NOTE: Because Blu-ray is a new format containing new technologies, certain disc, digital connection, compatibility, and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed.

Playing an optical disc

1. Turn on the computer.
2. Press the release button **(1)** on the optical drive bezel to release the disc tray.
3. Pull out the tray **(2)**.
4. Hold the disc by the edges to avoid touching the flat surfaces and position the disc label-side up over the tray spindle.

NOTE: If the tray is not fully accessible, tilt the disc carefully to position it over the spindle.

5. Gently press the disc **(3)** down onto the tray spindle until the disc snaps into place.



6. Close the disc tray.
7. If you have not yet configured AutoPlay, as described in the following section, the AutoPlay dialog box opens. It prompts you to select how you want to use the media content.

NOTE: For best results, be sure that your AC adapter is plugged into an external power source while playing a BD.

Configuring AutoPlay

1. Click **Start > Default Programs > Change AutoPlay Settings**.
2. Confirm that the **Use AutoPlay for all media and devices** check box is selected.
3. Click **Choose a default**, and then select one of the available options for each media type listed.
4. Click **Save**.

NOTE: For more information about AutoPlay, refer to Help and Support.

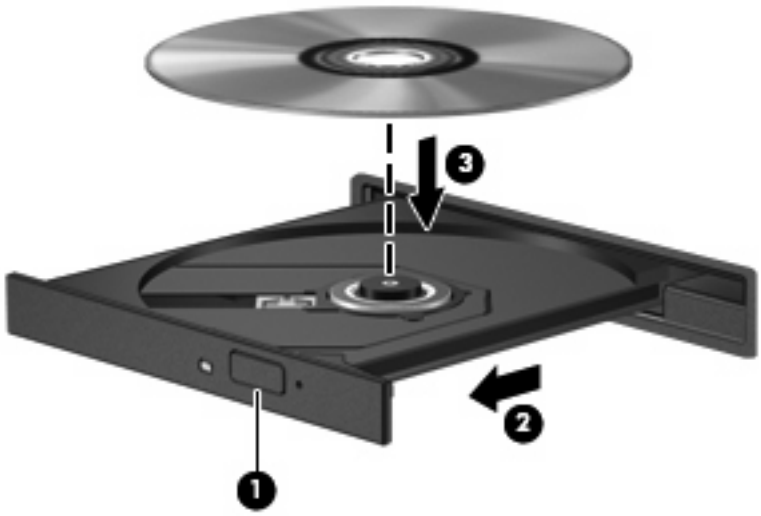
Watching a movie

Your optical drive allows you to watch movies from a disc. You can also watch high-definition movies from a disc if your computer includes an optional Blu-ray Disc ROM Drive.

1. Turn on the computer.
2. Press the release button **(1)** on the optical drive bezel to release the disc tray.
3. Pull out the tray **(2)**.
4. Hold the disc by the edges and position the disc label-side up over the tray spindle.

NOTE: If the tray is not fully accessible, tilt the disc carefully to position it over the spindle.

5. Gently press the disc **(3)** down onto the tray spindle until the disc snaps into place.



6. Close the disc tray.
7. Launch the DVD playback feature in TouchSmart by pressing the Media Launch button.
8. Then click the DVD icon and follow the instructions on the screen.

NOTE: To watch a high-definition movie, you must use TouchSmart. To watch standard format movies, you can use TouchSmart or other multimedia software.

Changing DVD region settings

Most DVDs that contain copyrighted files also contain region codes. The region codes help protect copyrights internationally.

You can play a DVD containing a region code only if the region code on the DVD matches the region setting on your DVD drive.

△ **CAUTION:** The region settings on your DVD drive can be changed only 5 times.

The region setting you select the fifth time becomes the permanent region setting on the DVD drive.

The number of region changes remaining is displayed on the DVD Region tab.

To change settings through the operating system:

1. Select **Start > Control Panel > System and Security**. Then in the **System** area, click **Device Manager**.

   NOTE: Windows® includes the User Account Control feature to improve the security of your computer. You may be prompted for your permission or password for tasks such as installing software, running utilities, or changing Windows settings. Refer to Help and Support for more information.

2. Click the arrow next to **DVD/CD-ROM drives** to expand the list to show all of the installed drives.
3. Right-click the DVD drive for which you want to change region settings, and then click **Properties**.
4. Click the **DVD Region** tab, and change settings.
5. Click **OK**.

Creating (burning) a CD or DVD

If the computer includes an optical drive that supports CD-RW, DVD-RW, or DVD+RW discs, you can burn data, video, and audio files, including MP3 and WAV music files, using software such as CyberLink Power2Go.

Observe the following guidelines when burning a CD or DVD:

- Before burning a disc, save and close any open files and close all programs.
- A CD-R or DVD-R is usually best for burning audio files because after the information is copied, it cannot be changed.

NOTE: You cannot create an audio DVD with CyberLink Power2Go.

- Because some home and car stereos will not play CD-RWs, use CD-Rs to burn music CDs.
- A CD-RW or DVD-RW is generally best for burning data files or for testing audio or video recordings before you burn them to a CD or DVD that cannot be changed.
- DVD players used in home systems usually do not support all DVD formats. Refer to the user guide that came with your DVD player for a list of supported formats.
- An MP3 file uses less space than other music file formats, and the process for creating an MP3 disc is the same as the process for creating a data file. MP3 files can be played only on MP3 players or on computers with MP3 software installed.

To burn a CD or DVD, follow these steps:

1. Download or copy the source files into a folder on your hard drive.
2. Insert a blank disc into the optical drive.
3. Select **Start > All Programs** and the name of the software you want to use.

NOTE: Some programs may be located in subfolders.

4. Select the kind of disc you want to create—data, audio, or video.
5. Right-click **Start**, click **Open Windows Explorer**, and navigate to the folder where the source files are stored.
6. Open the folder, and then drag the files to the drive that contains the blank disc.
7. Initiate the burning process as directed by the program you have selected.

For specific instructions, refer to the software manufacturer's instructions. These instructions may be provided with the software, on disc, or on the manufacturer's Web site.

△ **CAUTION:** Observe the copyright warning. It is a criminal offense, under applicable copyright laws, to make unauthorized copies of copyright-protected material, including computer programs, films, broadcasts, and sound recordings. Do not use this computer for such purposes.

Removing an optical disc

1. Press the release button **(1)** on the drive bezel to release the disc tray, and then gently pull out the tray **(2)** until it stops.
2. Remove the disc **(3)** from the tray by gently pressing down on the spindle while lifting the outer edges of the disc. Hold the disc by the edges to avoid touching the flat surfaces.

NOTE: If the tray is not fully accessible, tilt the disc carefully as you remove it.

3. Close the disc tray and place the disc in a protective case.

6 Webcam

Your computer includes an integrated webcam, located at the top of the display. The webcam allows you to capture and share video.

To use the webcam, double-tap the **HP TouchSmart** icon on the desktop, and then do one of the following:

- Tap the video module icon (1) on the TouchSmart home page. Then tap the **Webcam** button at the bottom of the following screen.

NOTE: In the video module, you can start the webcam, create a video, and upload your video to YouTube.

- Tap the small **Webcam** icon (2) at the bottom of the TouchSmart home page.

For optimum performance, observe the following guidelines while using the webcam:

- If you are having trouble viewing or sending multimedia files to someone on another LAN or outside your network firewall, temporarily disable the firewall, perform the task you want to perform, and then reenable the firewall. To permanently resolve the problem, reconfigure the firewall as necessary, and adjust the policies and settings.
- Whenever possible, place bright light sources behind the camera and out of the picture area.

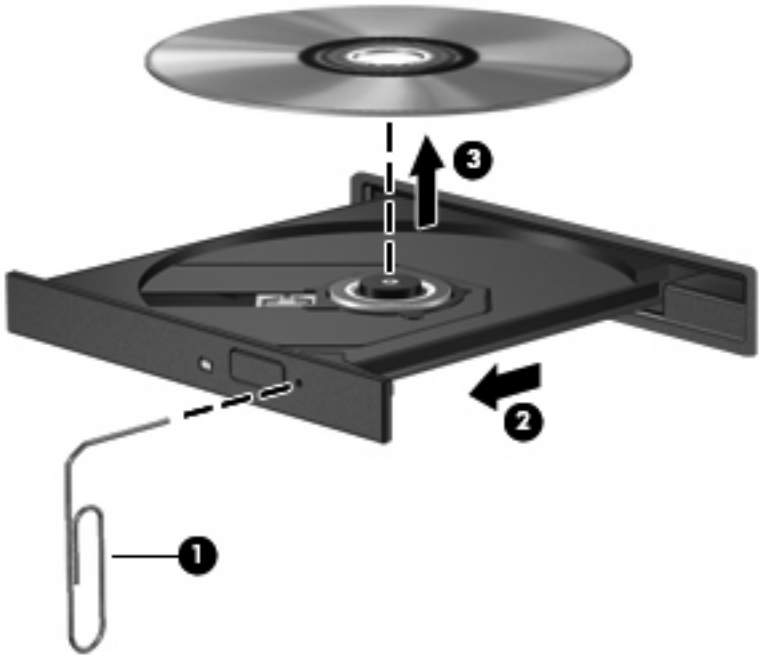
7 Troubleshooting

The following sections describe several common issues and resolutions.

The optical disc tray does not open

1. Insert the end of a paper clip **(1)** into the release access in the front bezel of the drive.
2. Press in gently on the paper clip until the disc tray is released, and then pull out the tray **(2)** until it stops.
3. Remove the disc **(3)** from the tray by gently pressing down on the spindle while lifting the outer edges of the disc. Hold the disc by the edges and avoid touching the flat surfaces.

NOTE: If the tray is not fully accessible, tilt the disc carefully as you remove it.



4. Close the disc tray and place the disc in a protective case.

The computer does not detect the optical drive

If the computer does not detect the optical drive, use Device Manager to troubleshoot the device and then update, uninstall, or disable the device driver:

1. Remove any discs from the optical drive.
2. Click **Start > Control Panel > System and Security**. Then in the **System** area, click **Device Manager**.
3. In the Device Manager window, click the arrow next to **DVD/CD-ROM drives** to expand the list to show all of the installed drives.

NOTE: If the drive is not listed, install (or reinstall) the device driver as instructed. Refer to “A device driver must be reinstalled” later in this section.

4. Right-click the optical drive listing to perform the following tasks:
   - Update the driver software
   - Disable
   - Uninstall
   - Scan for hardware changes. Windows scans your system for installed hardware and installs any required drivers.
   - Click **Properties** to see if the device is working properly:
     - The Properties window provides details about the device to help you troubleshoot issues.
     - Click the **Driver** tab to update, disable, or uninstall drivers for this device.

A disc does not play

- Save your work and close all open programs before playing a CD or a DVD.
- Log off the Internet before playing a CD or a DVD.
- Be sure that you insert the disc properly.
- Be sure that the disc is clean. If necessary, clean the disc with filtered water and a lint-free cloth. Wipe from the center of the disc to the outer edge.
- Check the disc for scratches. If you find scratches, treat the disc with an optical disc repair kit available at many electronics stores.
- Disable Sleep mode before playing the disc.

  Do not initiate Hibernation or Sleep while playing a disc. Otherwise, you may see a warning message asking if you want to continue. If this message is displayed, click **No**. After you click No, the computer may behave in either of the following ways:

  - Playback may resume.

– or –

- The playback window in the multimedia program may close. To return to playing the disc, click the **Play** button in your multimedia program to restart the disc. In rare cases, you may need to exit the program and then restart it.

- Increase system resources:
  - Turn off external devices such as printers and scanners. This practice frees up valuable system resources and results in better playback performance.
  - Change desktop color properties. Because the human eye cannot easily tell the difference between colors beyond 16 bits, you should not notice any loss of color while watching a movie if you lower system color properties to 16-bit color, as follows:
    1. Right-click on a blank area of the computer desktop, and then select **Screen resolution**.
    2. Select **Advanced settings > Monitor** tab.
    3. Select **High Color (16 bit)**, if this setting is not already selected.
    4. Click **OK**.

A disc does not play automatically

1. Click **Start > Default Programs > Change AutoPlay settings**.
2. Confirm that the **Use AutoPlay for all media and devices** check box is selected.
3. Click **Save**.

   A disc should now start automatically when it is inserted into the optical drive.

A DVD movie stops, skips, or plays erratically

- Clean the disc.
- Conserve system resources by trying the following suggestions:
  - Log off the Internet.
  - Change the color properties of the desktop:
    1. Right-click on a blank area of the computer desktop, and then select **Screen resolution**.
    2. Select **Advanced settings > Monitor** tab.
    3. Select **High Color (16 bit)**, if this setting is not already selected.
    4. Click **OK**.
  - Disconnect external devices, such as a printer, scanner, camera, or handheld device.

A DVD movie is not visible on an external display

1. If both the computer display and an external display are turned on, press fn+f4 one or more times to switch between the 2 displays.
2. Configure the monitor settings to make the external display primary:
   a. Right-click on a blank area of the computer desktop, and then select **Screen resolution**.
   b. Specify a primary display and a secondary display.

NOTE: When using both displays, the DVD image will not appear on any display designated as the secondary display.

To get information about a multimedia question not covered in this guide, select **Start > Help and Support**.

The process of burning a disc does not begin, or it stops before completion

- Be sure that all other programs are closed.
- Turn off Sleep mode and Hibernation.
- Be sure that you are using the right kind of disc for your drive. See your user guides for more information about disc types.
- Be sure that the disc is inserted properly.
- Select a slower write speed and try again.
- If you are copying a disc, save the information on the source disc to your hard drive before trying to burn the contents to a new disc, and then burn from your hard drive.
- Reinstall the disc-burning device driver located in the DVD/CD-ROM drives category in Device Manager.

A DVD playing in Windows Media Player produces no sound or display

Use TouchSmart to play a DVD. TouchSmart is installed on the computer.

A device driver must be reinstalled

To reinstall a device driver, follow these steps:

1. Remove any discs from the optical drive.
2. Select **Start > Control Panel > System and Security**. Then in the **System** area, click **Device Manager**.
3. In the Device Manager window, click the arrow next to the type of driver you want to uninstall and then reinstall (for example, DVD/CD-ROMs, Modems, and so on).
4. Right-click the device listing and click **Uninstall**. When prompted, confirm that you want to delete the device, but do not restart the computer. Repeat for any other drivers you want to delete.
5. In the Device Manager window, click **Action**, and then click **Scan for hardware changes**. Windows scans your system for installed hardware and installs default drivers for any devices requiring drivers.

NOTE: If you are prompted to restart the computer, save all open files, and then continue with the restart.

6. Reopen Device Manager, if necessary, and then verify that the drivers are once again listed.
7. Try to use your device.

If uninstalling and reinstalling the device drivers does not correct the problem, you may need to update your drivers using the procedures in the following section.

Obtaining the latest Windows device drivers

You can obtain the latest Windows device drivers by using Windows Update. This feature can be set to automatically check for and install updates for your hardware drivers, as well as for the Windows operating system and other Microsoft products.

To use Windows Update:

1. Click **Start > All Programs > Windows Update**.

NOTE: If you have not previously set up Windows Update, you will be prompted to enter settings before you can check for updates.

2. Click **Check for updates**.
3. Follow the on-screen instructions.

Obtaining the latest HP device drivers

1. Open your Internet browser, and go to http://www.hp.com/support.
2. Select your country or region.
3. Click the option for software and driver downloads, and then type your computer model number in the product box.
4. Press enter, and then follow the on-screen instructions.

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